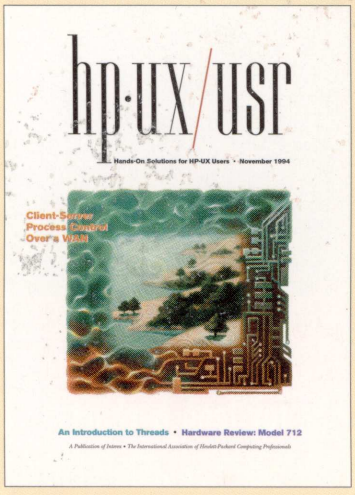
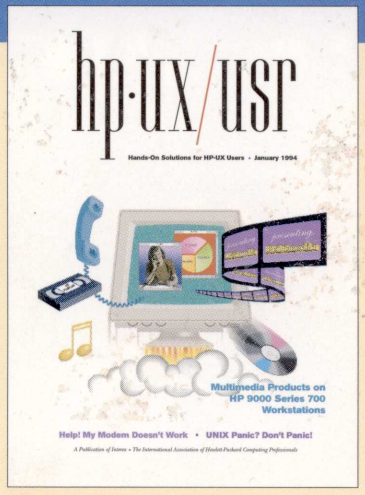
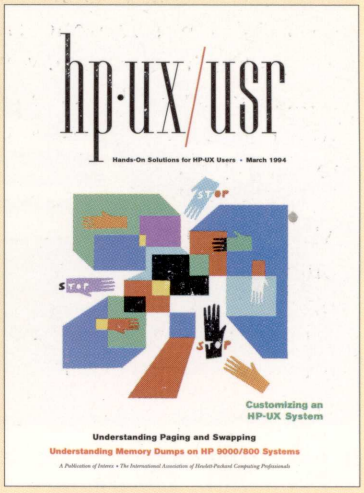
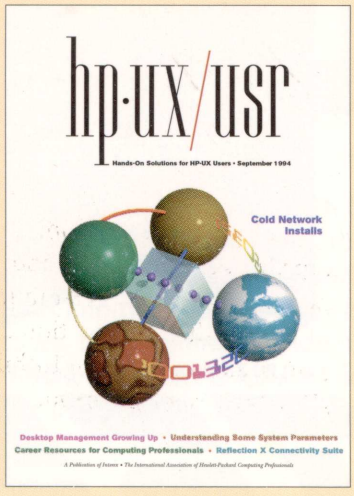
hp·ux/usr

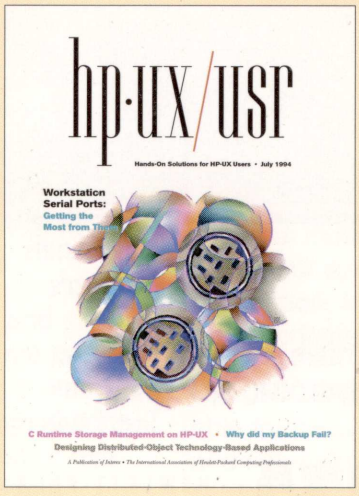
1994 Index

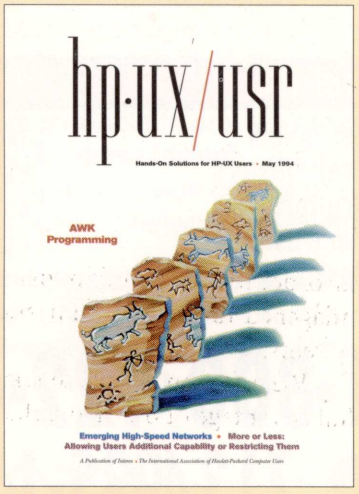










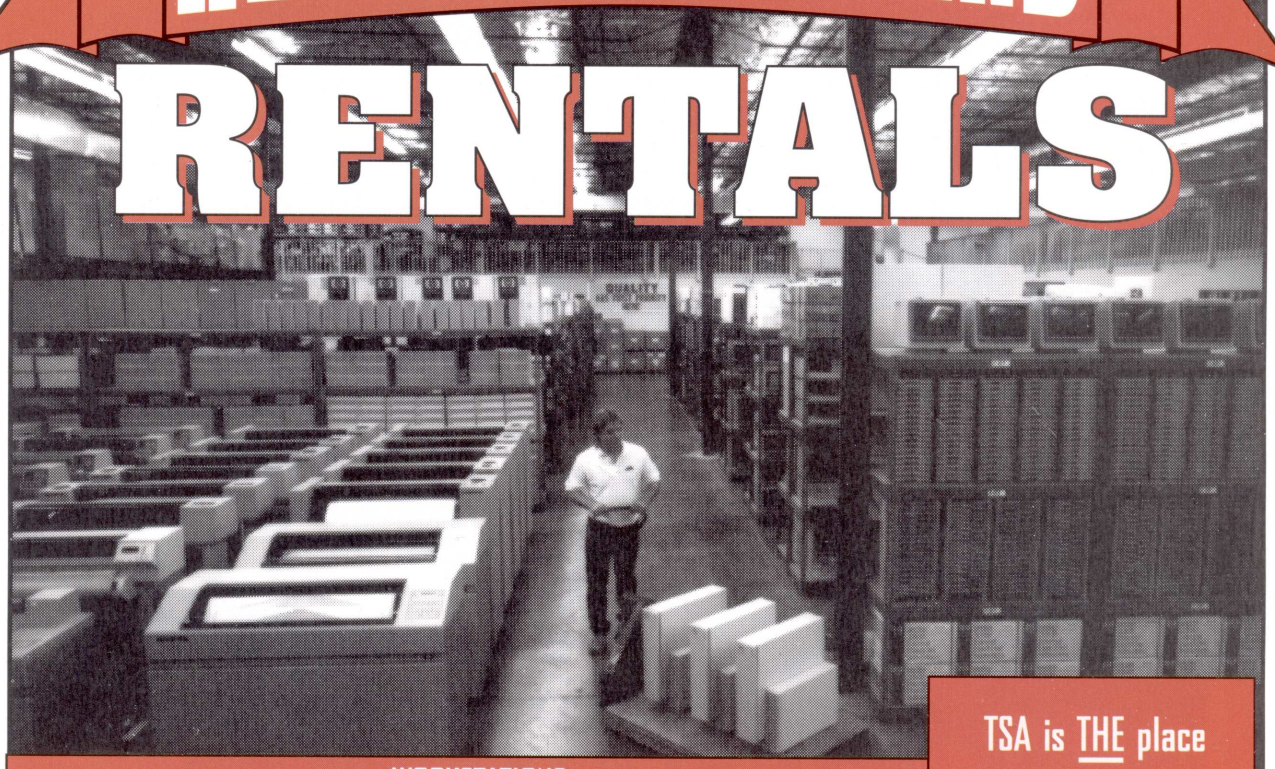


A Supplement to hp·ux/usr *Magazine*

Published by Interex, The International Association of Hewlett-Packard Computing Professionals

HP RENTALS • HP RENTALS • HP RENTALS • HP RENTALS • HP RENTALS

HEWLETT-PACKARD RENTALS



WORKSTATIONS

755	750	CRX	433 S	CRX	382	360	332
735	730	CRX-24	425 T	VRX	362	350	330
725	720	CRX-24Z	425 S	GRX	380	345	320
715	710	CRX-48Z	425 E	PVRX	375	340	310
	705	GRX	400 S/T	EVRX	370		

TSA is THE place for long & short term rentals of Hewlett-Packard equipment.

Ask about our 6-12 month purchase plans!

PLOTTERS

Designjets
Draftmasters
Draftpros
Electrostatics
Desktops

PRINTERS

Laserjets
Deskjets
Paintjets
Rugged Writers
Line Printers

MISCELLANEOUS

X Terminals
Scanners
PC's
Memory
Discs
Test Equipment

1-800-422-4872

MasterCard **713/935-1500** VISA

Fax 713/935-1555

EMAIL:INFO@tsa.com

HEWLETT-PACKARD AUTHORIZED RENTAL COMPANY

TSA

2040 West Sam Houston Parkway N. • Houston, Texas 77043

THE RIGHT EQUIPMENT. RIGHT NOW.

HP RENTALS • HP RENTALS • HP RENTALS • HP RENTALS • HP RENTALS

hp·ux/usr

Cross-Reference Index • 1994

Contents

How to Use This Index	2
Subject Index	3
Author Index	10
Article Index	9
Chronological Index	12
New Product Index	14

HOW TO USE THIS INDEX

The 1994 *hp•ux/usr* Cross-Reference Index has five parts:
Subject Index
Article Index
Author Index
Chronological Index
New Products Index

SUBJECT INDEX

The Subject Index is a two-level index. The listings in each level are fully alphabetized within a level:
Main Heading = general subject
Subheading = specific subject
The Subject Index provides access only to subjects, not to article titles. Article titles can be found in the Article Index, Author Index, and Chronological Index. "See" refers the user to a subject heading that is more commonly used for the subject. "See also" refers the user to related subjects. For example:

WAN (See **Networks**)	"See" reference
UNIX (See also **HP-UX**)	"See also" reference
HP-UX	Main Heading
Access Control Lists (ACLs) [5:30]	Second Level [May issue:pages]

ARTICLE, AUTHOR, AND CHRONOLOGICAL INDEX

List of abbreviations:

C	Column	NET	Networks
CD	CD-ROM	PF	Product Focus
COM	Data Communications	PRG	Programming
CON	Conference	REV	Review
F	Feature	SA	Systems Administration
MM	Multimedia	SEC	Security
MSC	Miscellaneous	SM	Systems Management

NEW PRODUCTS INDEX

The New Products Index contains both names of products and the companies producing them. Company names are boldface.

Subject Index

Backup
- Complex Environments [7:36]
- Computer Resources [7:37-38]
- Media [7:39-40]
- Network Services [7:38]
- Policy [7:38-39]
- Problems [7:36-42]
- Product [7:37]
- Recovery [7:36]
- Restore Operations [7:40-42]

CD-ROM
- A2655A Toshiba 3401 Drive [5:64]
- CD-ROM Changer News [7:72]
- Digital Magazines [7:73]
- Do It Yourself Discs [3:56-57]
- Faster Drives [3:57]
- Firewall [5:34-35]
- Interesting Titles [3:54-56]
- Jewel Case [5:64]
- LaserROM/PC [1:52-53]
- Low-Cost Suppliers [3:56]
- More Interesting CD-ROM Titles [84-85]
- MPC 2 Standard [3:57]
- Multiplatform CDs [3:54-57]
- PhotoCD [1:52-53]
- Portables with CD-ROMs [3:57]
- Sorting Printers in LaserROM [7:73]
- Toshiba 4101 Jumpers [7:72-73]

Common Open Software Environment (COSE) [3:50-53]

Conferences
- 1994 North American Conference [1:54-55]
- Common Desktop Environment (CDE) Developers' Conference [3:50]
- Interex '94 [5:66-67; 7:62-67]
- X Conference, Eighth Annual [5:60-62]

Contributed Software Library (CSL) [1:54-55; 3:58-59; 5:68-69; 7:74-77; 9:86-87; 11:56-57]

Data Communications
- Asynchronous Transfer Mode (ATM) [5:43-44]
- Cold Network Installs [9:18-35]
- Connecting Modems to HP-UX Workstations [7:20]
- Data Communications Programs [1:24-32; 7:20-21]
- Fibre Channel [5:45-46]
- High-Speed Modems and uugetty [3:46-49]

High-Speed Modems on 8 x 7 Systems [1:43-44]
Modem Cabling [1:28-30]
Modem Device Files [1:30-32]
Modem Lights [1:28]
Modem Signals [1:25-26]
Network Installs [9:18-35]
Programming Modems [1:28]
RS-232 Devices [7:21-22]
Serial Port Security [7:22]
SLIP [7:21]
Smiley Faces [1:44-45]
TCP Connection [9:38-39]
UUCP [7:20-21]
Workstation Serial Ports [7:16-22]

Hewlett-Packard
E Series Servers [60-61]
HP 1000 Guru [11:20-22]
HP 9000 Fax [1:18-19]
HP 9000 Model 712 [3: 60; 11:42-43]
HP DeskScan/UX [1:19-23]
HP ENVIZEX X Terminals [1:44]
HP RasterOps Videolive [1:15-18]
Model 712 Workstations [3:60-61]
New Software [3:60-61]
PA-7100LC RISC Microprocessor [3:60]
Series 700 Workstation Serial Ports [7:16-22]

HP 9000 [1:15-23, 24-32; 3:29-33, 60-61]

HP-UX
Access Control Lists (ACLs) [5:30]
C Runtime Storage Management [7:24-35]
Capabilities [5:39-35]
Cold Network Installs [9:18-35]
CSL (See **Contributed Software Library**)
Customized Security [3:14-26]
Making Xwpe [9:77-78]
Memory Dumps [3:34-45]
Network Installs [9:18-35]
Paging [3:28-33]
Phantom Files [7:60-61]
SAM (System Administration Manager) [9:70-74]
Series 700 Recovery Tape [11:44-47]
Shell Tricks [80-82]
SIGUNIX [1:55]

Swap Space [5:52-59; 11:47]
Swapping [3:28-33]
Trusted Systems [5:30]
vi [11: 54-55]

Interex
Interex '94 [5:66-67; 7:62-67]
Interex on Internet [1:54-55]

Internet
Career Resources [9:58-69]
Gopher [9:60-62]
Interex on Internet [1:54-55]
Online Career Center [9:62-64]
Telnet [9:64-66]
WAIS [9:62]
World Wide Web (WWW) [9:62, 74]

LAN (See **Networks**)

Modems (See also **Data Communications**)
Connecting Modems to HP-UX Workstations [7:20]
High-Speed Modems and uugetty [46-49]
High-Speed Modems on 8x7 Systems [1:43-44]
Modem Cabling [1:28-30]
Modem Device Files [1:30-32]
Modem Lights [1:28]
Modem Signals [1:25-26]
Workstation Serial Ports [7:16-22]

Multimedia [1:14-23]

Networks
100BaseVG and 100VG-AnyLAN [5:42-43]
Area Control Centers (ACC) [11:24-33]
ASCII Terminals [7:17-18]
Asynchronous Transfer Mode (ATM) [5:43-44]
Backup [7:38]
Client-Server Process Control Over a WAN [11:24-33]
Cold Network Installs [9:18-35]
Emerging High-Speed Networks [5:36-47]
Fibre Channel [5:45-46]
Limitations of Current Networks [5:38-40]
NetDist Server [9:22-30]
Network Installs [9:18-35]
Network Management [9:52-53]
Network Services [7:38]
Oakland Control Center (OCC) [11:24-33]

Photonics [5:46]
Printers and Plotters [7:18-19]
Switching Hubs [5:40-42]
TCP Connection [9:38-39]
Terminal Emulation [7:19-20]
UPS [7:19]
Workstation Serial Ports [7:16-22]

Product Focus
Graphics Workstations [7:78-79]
HP [3:60-61]
Quorum Equal 1.3 [9:88-90]
TAE Plus 5.3 [5:70-71; 9:90]
Visual Thought [11:58-59]

Programming
AWK Programming [5:15-27; 9:82]
C Runtime Storage Management on HP-UX [7:24-35]
Database Objects [7:49-53]
Distributed Object Technology [7:45-49]
Distributed-Object-Technology-Based Application Design [7:44-54]
GUI [7:44-45]
Hyperlinks [7:54]
Object Links [7:52]
Programming Environments [76-78]
Threads [11:34-41]
X (See **X**)

Security [3:14-26; 7:22]

System Administration
Access Control Lists (ACLs) [5:30]
adb [5:48-51]
Bypassing Login Shell [5:33]
Capabilities [5:39-35]
Career Resources [9:58-69]
chroot [5:30-32]
Cold Network Installs [9:18-35]
comp.sys.hp Reorganization [1:42-45]
Desktop Management [9:52-57]
Firewall [5:34-35]
High-Speed Modems and uugetty [46-49]
High-Speed Modems on 8x7 Systems [1:43-44]
Inodes [9:44-50]
Memory Dumps [3:34-45]
Network Installs [9:18-35]
Paging [3:28-33]

Performance and Hardware Testing [7:56-59]
SAM (System Administration Manager) [9:70-74]
Script to Limit Commands [5:32-33]
Series 700 Recovery Tape [11:44-47]
Shell Tricks [80-82]
Suid [5:34-35]
Swap Space [5:52-59; 11:47]
Swapping [3:28-33]
System Parameters [9:44-50]
Trusted Systems [5:30]
Workstation Serial Ports [7:16-22]

UNIX (See also **HP-UX**)
Access Control Lists (ACLs) [5:30]
AUK Programming [5:14-27]
Bypassing the Login Shell [5:33]
Capabilities [5:29-35]
chroot [5:30-32]
Panic [1:34-40]
Suid [5:34-35]

WAN (See **Networks**)

X
CDE Conference [3:50-53]
Motif Combo Box [1:46-50]
Programming Environments [9:76-78]
Reflection X [9:36-42]
SAM (System Administration Manager) [9:70-74]
Tool Control Language (TCL) [11:48-53]
Widgets [1:46-50]
X Conference, Eighth Annual [5:60-62]
Xcoral [7:68-71]
Xwpe [9:76-78]

Article Index

ARTICLE	ARTICLE TYPE	ISSUE
"FILE: Table is Full" "INODE: Table is Full" Why Do I Get These Messages? Understanding System Parameters	F.SA	[9:44-50]
1994 Interex Conference and Expo Denver, Colorado	F.CON	[5:66-67]
1994 Interex Conference and Expo	F.CON	[7:62-67]
A Use for adb (1)	C.SA	[5:48-51]
An Introduction to Threads	F.PRG	[11:34-41]
Another Look at TCL	C.PRG	[11:48-53]
AWK Programming	F.PRG	[5:14-27]
C Runtime Storage Management on HP-UX	F.PRG	[7:24-35]
Career Resources for Computing Professionals	F.MSC	[9:58-69]
Client-Server Process Control over a WAN	F.NET	[11:24-33]
Cold Network Installs	F.SA	[9:18-35]
comp.sys.hp Update	C.SA	[1:42-45]
Creating a Series 700 Recovery Tape	C.SA	[11:44-47]
Customizing an HP-UX System: Access Security and Secured Resources	F.SEC	[3:14-26]
Designing Distributed-Object-Technology-Based Applications	F.PRG	[7:44-54]
Desktop Management Growing Up	F.SA	[9:52-57]
Eighth Annual X Conference	C.CON	[5:60-62]
Emerging High-Speed Networks	F.NET	[5:36-47]
Graphics Workstations	PF	[7:78-79]
Hardware Review: Model 712	F.REV	[11:42-43]
Help! My Modem Doesn't Work	F.COM	[1:24-32]
High-Speed Modems and uugetty	C.SA	[3:46-49]
More Interesting CD-ROM Titles	C.CD	[9:84-85]
More or Less: Allowing Users Additional Capability or Restricting Them	F.SA	[5:28-35]
Motif ComboBox	C.PRG	[1:46-50]
Multiplatform CDs	C.CD	[3:54-57]
Multimedia Products on HP 9000 Series 700 Workstations	F.MM	[1:14-23]
New CD Jewel Case	C.CD	[5:64]
New from COSE	C.PRG	[3:50-53]
New Version of LaserROM/PC	C.CD	[1:52-53]
Performance and Hardware Testing	C.SA	[7:56-59]
Phantom Files	C.SA	[7:60-61]
Programming Environments	C.PRG	[9:75-78]
Quorum Equal	PF	[9:88-90]
Review: Reflection X Connectivity Suite	F.REV	[9:36-42]
SAM-HP's System Administration Manager	C.SA	[9:70-74]
Staying In vi	C.SA	[11:54-55]
Swap Space	C.SA	[5:52-59]
TAE Plus 5.3	PF	[5:70-71]
Toshiba 4101 Jumpers	C.CD	[7:72-73]
Understanding Memory Dumps on HP 9000/800 Systems	F.SM	[3:34-45]
Understanding Paging and Swapping	F.SA	[3:28-33]
UNIX Panic? Don't Panic!	F.SM	[1:34-40]
Visual Thought	PF	[11:58-59]
Warning: Ugly Shell Trick Ahead	C.SA	[9:80-82]
Why Did my Backup Fail?	F.SA	[7:36-42]
Workstation Serial Ports: Getting the Most from Them	F.COM	[7:16-22]
Xcoral	C.PRG	[7:68-71]

Author Index

AUTHOR/ARTICLE	ARTICLE TYPE	ISSUE
Bowman, Bill		
Desktop Management Growing Up	F.SA	[9:52-57]
Cobb, Chris		
Cold Network Installs	F.SA	[9:18-35]
Curtin, Chris		
comp.sys.hp Update	C.SA	[1:42-45]
Creating a Series 700 Recovery Tape	C.SA	[11:44-47]
High-Speed Modems and uugetty	C.SA	[3:46-49]
Performance and Hardware Testing	C.SA	[7:56-59]
SAM-HP's System Administration Manager	C.SA	[9:70-74]
Swap Space	C.SA	[5:52-59]
DiPasquale, Mark		
An Introduction to Threads	F.PRG	[11:34-41]
Friedrich, Wolfgang		
Why Did my Backup Fail?	F.SA	[7:36-42]
Hassell, Bill		
More Interesting CD-ROM Titles	C.CD	[9:84-85]
Multiplatform CDs	C.CD	[3:54-57]
New CD Jewel Case	C.CD	[5:64]
New Version of LaserROM/PC	C.CD	[1:52-53]
Toshiba 4101 Jumpers	C.CD	[7:72-73]
Headlund, Larry		
Another Look at TCL	C.PRG	[11:48-53]
Eighth Annual X Conference	C.CON	[5:60-62]
Motif ComboBox	C.PRG	[1:46-50]
New from COSE	C.PRG	[3:50-53]
Programming Environments	C.PRG	[9:75-78]
Review: Reflection X Connectivity Suite	F.REV	[9:36-42]
Xcoral	C.PRG	[7:68-71]
Hviid, Steen Hansen		
Career Resources for Computing Professionals	F.MSC	[9:58-69]
Kennedy, Colin		
Understanding Memory Dumps on HP 9000/800 Systems	F.SM	[3:34-45]
Malik, Mohammad		
Emerging High-Speed Networks	F.NET	[5:36-47]
Mariaux, Luc		
Customizing an HP-UX System: Access Security and Secured Resources	F.SEC	[3:14-26]
McClure, Dennis		
UNIX Panic? Don't Panic!	F.SM	[1:34-40]

AUTHOR/ARTICLE	ARTICLE TYPE	ISSUE
Mehta, Kaushik		
Multimedia Products on HP 9000 Series 700 Workstations	F.MM	[1:14-23]
Payne, Mark		
Understanding Memory Dumps on HP 9000/800 Systems	F.SM	[3:34-45]
Pezzano, John A.		
"FILE: Table is Full" "INODE: Table is Full" Why Do I Get These Messages?		
Understanding System Parameters	F.SA	[9:44-50]
Help! My Modem Doesn't Work	F.COM	[1:24-32]
More or Less: Allowing Users Additional Capability or Restricting Them	F.SA	[5:28-35]
Understanding Paging and Swapping	F.SA	[3:28-33]
Workstation Serial Ports: Getting the Most from Them	F.COM	[7:16-22]
Reifschneider, Sean		
Hardware Review: Model 712	F.REV	[11:42-43]
Ryan, Tim		
Designing Distributed-Object Technology-Based Applications	F.PRG	[7:44-54]
Sudarsanam, Sam		
Emerging High-Speed Networks	F.NET	[5:36-47]
Totsch, David L.		
AWK Programming	F.PRG	[5:14-27]
A Use for adb (1)	C.SA	[5:48-51]
Phantom Files	C.SA	[7:60-61]
Warning: Ugly Shell Trick Ahead	C.SA	[9:80-82]
Staying In vi	C.SA	[11:54-55]
Tuttle, T. Stephen		
C Runtime Storage Management on HP-UX	F.PRG	[7:24-35]
Wong, Kevin B.		
Client-Server Process Control over a WAN	F.NET	[11:24-33]

Chronological Index

ARTICLE	ARTICLE TYPE	ISSUE
January 1994		
comp.sys.hp Update	C.SA	[1:42-45]
Help! My Modem Doesn't Work	F.COM	[1:24-32]
Motif ComboBox	C.PRG	[1:46-50]
Multimedia Products on HP 9000 Series 700 Workstations	F.MM	[1:14-23]
New Version of LaserROM/PC	C.CD	[1:52-53]
UNIX Panic? Don't Panic!	F.SM	[1:34-40]
March 1994		
Customizing an HP-UX System: Access Security and Secured Resources	F.SEC	[3:14-26]
High-Speed Modems and uugetty	C.SA	[3:46-49]
HP Product Focus	PF	[3:61]
Multiplatform CDs	C.CD	[3:54-57]
New from COSE	C.PRG	[3:50-53]
Understanding Memory Dumps on HP 9000/800 Systems	F.SM	[3:34-45]
Understanding Paging and Swapping	F.SA	[3:28-33]
May 1994		
1994 Interex Conference & Expo, Denver, Colorado	F.CON	[5:66-67]
A Use for adb (1)	C.SA	[5:48-51]
AWK Programming	F.PRG	[5:14-27]
Eighth Annual X Conference	C.CON	[5:60-62]
Emerging High-Speed Networks	F.NET	[5:36-47]
More or Less: Allowing Users Additional Capability or Restricting Them	F.SA	[5:28-35]
New CD Jewel Case	C.CD	[5:64]
Swap Space	C.SA	[5:52-59]
TAE Plus 5.3	PF	[5:70-71]

ARTICLE	ARTICLE TYPE	ISSUE
July 1994		
1994 Interex Conference & Expo	F.CON	[7:62-67]
C Runtime Storage Management on HP-UX	F.PRG	[7:24-35]
Designing Distributed-Object-Technology-Based Applications	F.PRG	[7:44-54]
Graphics Workstations	PF	[7:78-79]
Performance and Hardware Testing	C.SA	[7:56-59]
Phantom Files	C.SA	[7:60-61]
Toshiba 4101 Jumpers	C.CD	[7:72-73]
Why Did my Backup Fail?	F.SA	[7:36-42]
Workstation Serial Ports: Getting the Most from Them	F.COM	[7:16-22]
Xcoral	C.PRG	[7:68-71]
September 1994		
"FILE: Table is Full" "INODE: Table is Full" Why Do I Get These Messages? Understanding System Parameters	F.SA	[9:44-50]
Career Resources for Computing Professionals	F.MSC	[9:58-69]
Cold Network Installs	F.SA	[9:18-35]
Desktop Management Growing Up	F.SA	[9:52-57]
More Interesting CD-ROM Titles	C.CD	[9:84-85]
Programming Environments	C.PRG	[9:75-78]
Quorum Equal	PF	[9:88-90]
Review: Reflection X Connectivity Suite	F.REV	[9:36-42]
SAM-HP's System Administration Manager	C.SA	[9:70-74]
Warning: Ugly Shell Trick Ahead	C.SA	[9:80-82]
November 1994		
An Introduction to Threads	F.PRG	[11:34-41]
Another Look at TCL	C.PRG	[11:48-53]
Client-Server Process Control over a WAN	F.NET	[11:24-33]
Creating a Series 700 Recovery Tape	C.SA	[11:44-47]
Hardware Review: Model 712	F.REV	[11:42-43]
Staying In vi	C.SA	[11:54-55]
Visual Thought	PF	[11:58-59]

New Product Index

A

a/Soft Development, Inc.
nu/TPU v4.0 Text Editor [3:80]

Abacus Data Systems, Inc.
ADAMS 4GL Version 6.4 [3:72]

Acucobol, Inc.
AcuServer [7:82]

ADB, Inc.
M.A.T.I.S.S.E. Version 2.3 [7:107]

Advanced Archival Products, Inc. (AAP)
AMASS Storage Management Systems [9:92-94]
Distribution Agreement with HP [7:98-100]

Advanced Software Automation, Inc. (ASA)
ASA 20/20 [11:78]
Hindsight/Membrain [7:94]
Hindsight/SLA [7:94]

AGE Logic, Inc.
XoftWare/32 Version 3.0 [1:73-74]

Aggregate Computing, Inc.
NetShare SDK [7:109-110]

AGILE
4550 E/PS Ethernet Print Server [5:90]

American Hytech Corporation
NetBook [9:107-108]
NetGuru Manager [9:107-108]
NetGuru Simulator [9:107-108]

ANDATACO
Encore Plus 8-mm Tape Subsystems [3:66]
Xcelerated Systems Acquisition [3:66]

Andersen Consulting
MAC-PAC OPEN [7:85-86; 11:74]
MAC-PAC OPEN Sales Force Automation (SFA) [9:102]

Apertus Technologies Inc.
Enterprise/Access 2.0 [7:104-105]

API International
Faces [5:79]
FASTCopy [11:60-62]
Unispool 4.0 [9:104]
Vantage 2.0 [1:68-70]

Applied Concepts, Inc.
LAZERLINK III [5:92-93]
SCSI Switch [7:80]

Arrow Electronics, Inc.
Custom Order Program [1:72]

Artecon
GigaStak 3.5" Disk and Tape Subsystems [1:60-62]
Optical Jukeboxes [9:100]

ASK Group, Inc.
MANMAN/X Release 3.0 [5:87-88]

ASTA, Inc.
Bundled Libraries [7:109]
C++ compiler [7:109]
QA C [7:88]
QA C++ Software Analysis [9:104]
Aurora Technologies, Inc.
Communications Servers [11:62]
Autotime Corporation
Memory Conversion [5:79]
Avalon Software Inc.
CIIM Version 8.6 [5:88]

B

BBN Software Products Corporation
BBN/Cornerstone Extension Language (CEL) [5:72]
Bering Technology, Inc.
MultiPac 150 Series Bernoulli Disk Drives [3:68]
BGS Systems, Inc.
BEST/1 for UNIX [1:67]
Bluestone
db-UIM/X2.5 [7:98]
db-UIM/X Client-Server RDBMS Tool [11:68-69]
Boole & Babbage, Inc.
COMMAND/POST [9:98]
Bradmark Technologies, Inc.
DBGENERAL [7:97
Bus-Tech Inc.
Datablaster [7:96]

C

C.A.E. Plus, Inc.
ArchGen Version 1.0 [9:103]
Cal-Logic
Memory Expansion [7:103; 9:92]
Candle Corporation
Candle Availability Command Center [7:94]
OMEGAMON [7:96]
Carolian Systems Corporation
SmartAlert [9:109]
SmartStation [9:109]
Special Projects Division [9:109]
CenterLine Software, Inc.
ResourceCenter [11:76]
Central Data Corporation
Redundant scsiTerminal Server [11:72]
Century Computing, Inc.
TAE Plus Version 5.3 [1:56]
Chase Research
IORACK [5:89-90]
Cheyenne Software, Inc.
ARCserve/Open [7:89-90]

Cincom Systems, Inc.
CONTROL:Manufacturing [1:76]
Q-CIM Inc. Partnership [3:70-72]
Systems Innovation Office [5:97]
Xpert Rule Analyser Professional [5:97]
XpertRule Version 2.1 [1:76]
Cisco Systems
CiscoWorks on HP OpenView [1:78]
Clarify Inc.
Customer Service Management [11:70]
Clarity Software
Rapport Script [5:94]
CODA, Inc.
Open Accounting System (OAS) [1:65-67]
Cognos Inc.
Axiant Client-Server Toolset [1:71-72]
Client-Server Ready [11:60]
Collier-Jackson
VisionShift [7:80-82]
Combinet, Inc.
EVERYWARE 900 [7:107-108]
EVERYWARE SOHO [7:108]
Commercial Systems Group of Arrow Electronics, Inc.
Custom Order Program [1:72]
CommTouch Software
Pronto Mail [7:102]
Computational Engineering International, Inc. (CEI)
EnSight Version 5.1 [5:97-98]
Computer Associates
CA-Unicenter Pricing [11:64]
Concorde Technologies, Inc.
DDS-2 Tape Drives [7:104]
Conner Peripherals Storage Systems Group
DDS-2 DAT Backup [9:103-104]
Cornerstone
Piccolo [11:86]
CoStar Corporation
LabelWriter SE [5:86]

D

DataBase Publishing Software, Inc.
SmartLeaf Kanji [3:78]
Datalogix International Inc.
CIMPRO 5.0 [11:66]
Dataram Corporation
DTM900 Series RAID Storage Subsystems [7:102-103]
Diamond Optimum Systems
Version Control System-UX (VCS-UX) [5:92; 11:60]
Digital Tools
AutoPLAN II Version 2.0 [7:90-92]
Dimeric Development Corporation
easyDBA [3:75]
TSreorg [7:100]

Disk Emulation Systems, Inc. (DES)
FW-Series SCSI-2 Disk Emulators [7:100-102]
Documentum Inc.
Enterprise Document Management System [5:82]
Dynamic InformationSystems Corporation (DISC)
OMNIDEX [3:74]

E

Emphasys Software
Easy-In System/36 Migration [11:69]
Enabling Technologies Group, Inc.
ce Release 2 [7:97-98]
Exabyte Corporation
HP Support for 8-mm Cartridge Subsystem [3:72]

F

Faximum Software Inc.
Client-Server [7:106]
FirstClass Systems
Computer-Based Training [1:76]
Four Seasons Software
4S-Report Graphical Report Writer [1:62]
Fourth Shift Corporation
JIT Enterprise System Release 3.0 [11:62-64]
Frank Solutions, Inc.
Quicklink IVR [3:76-78]
Freedman Sharp and Associates Inc.
PowerBroker [11:73]

G

Gallium Software Inc.
Font Management [5:84-87]
FontTastic [11:76]
Gimpel Software
FlexeLint 6.0 for C/C++ [7:103-104]
Grafpoint, Inc.
XALT Office [1:73]
Group 1 Software
Barcoding/UNIX [7:92]
CODE-1 Plus/UNIX [3:66]
DbLinks [11:82]
Geographic Coding System/UNIX [7:92]
MailStream Plus/UNIX [7:92]

H

Helios Systems
64 MB Kits for Series 715s [1:77]
Herstal Automation, Ltd.
AUTOREPLY [5:78-79]

Hewlett-Packard
CiscoWorks on HP OpenView [1:78]
Cross Platform Toolset [11:84]
ENWARE X Station Software [5:100]
Flat-Panel Display [5:100]
HP 700/70 Windowing Terminal [7:110]
HP Distributed Smalltalk Version 3.0 [11:84]
HP Entria [5:98-100]
HP OODCE/9000 [9:110]
HP OpenView Distributed Management Platform Version 4.0 [5:98]
HP OpenView OmniBack [3:82-84]
HP OpenView OmniStorage [3:82]
HP OpenView OperationsCenter Version 1.14 [9:110]
HP OpenView Premier Solution Partner [9:109-110]
HP OpenView SNA Node Manager [1:78]
HP OpenView Software Distributor Supports Sun [3:84]
Model 4000DC DDS-2 DAT Drive [5:100]
SNAplus Release 3.0 [3:84]
UIM/X GUI Builder [11:84]
Hitachi Digital Graphics (USA), Inc.
MultiPad 609J Graphics Tablet [11:84]
HRB Systems
ESL 2000 [7:108]
Human Designed Systems (HDS)
HDS Video [7:106-107]
ViewStation LX Series X Terminals [11:76]
ViewStation Ultra X Terminals [9:108]

I

I-Kinetics, Inc.
I-Bridge Command Adapter [7:87-89]
IEM, Inc.
4-mm Backup [11:66]
Alexandria Version 2.0 [5:83-84]
Alexandria Version 2.5 [11:66]
DAT Autofeeder [11:66]
DDS-2 Carousels [5:83]
DDS-2 DAT Drives [5:83]
Half-inch 3480 Drives [5:83]
Removable Hard Disk Drives [5:83]
Write-Once Support for Optical Drives [5:82-83]
Ikon Corporation
DR11-W Emulator Model 10112 [1:78]
Imperial Technology
MegaRam IDBU [1:58-60]
Information Builders
FOCUS [11:66-68]
Information Handling Services (IHS)
Congruity [9:96]
Innovative Information Systems, Inc.
Uniface Corporation [1:74]
Innovus Technologies Inc.
NetWorker for HP 9000 Version 4.0 [11:62]

InSoft, Inc.
Communique! [7:82]
Interactive Development Environments
Object Modeling Technique Tools [1:70]
Software through Pictures/Structures Environment (StP/SE) [7:105]
StP/IM [1:70]
International Digital Scientific, Inc.
CAST/MPE HP Migration to UNIX and ORACLE [1:67-68]
International Discount Communications (IDT)
Talking E-Mail [9:102]
Island Software Corporation
IslandOffice [5:76]
ISOCOR
MAPIWARE [9:94]
IXI Corporation
IXI Premier Motif [11:82]

J

JetForm Corporation
JetForm Server [7:100]

K

Kearney Systems, Inc.
Barware Software [1:77]
Oracle-Based Shrink-Wrapped Software [1:77]
KELLY Computer Systems
Open Systems Center [3:82]
Memory Arrays [9:100]
KL Group Inc.
XRT/3d Version 2.0 [1:66]
XRT/3d [7:90]
XRT/graph for OSF/Motif Japanese Version [1:66]
XRT/graph Version 2.4 [11:74]
XRT/table [7:90]
KnowledgeNet
Net/WrkHP [3:78-80; 11:74-75]

L

Legent Corporation
Open Systems Management [7:106]
Liant Software Corporation
C++/Views Release 3 for Windows, OSF/Motif, and OS/2 [9:108-109]
Open PL/I Version 6.0 [11:78]
Relativity for RM/COBOL [9:109]
Lone Star Software Corporation, Inc.
Lone-Tar [9:96]
Lucid, Inc.
Dynamic Object Analysis [9:104]
Energize Programming System [5:80; 7:109; 9:104]

M

MainSoft Corporation
MainWin Cross-Development Kit (CDK) [5:74]
MainWin Software Developers Kit [3:64-66; 7:84-85]
ManTech Systems Corporation
On-Site Network Maintenance [5:74]
Martech
Low-Cost Memory [1:58]
McCabe & Associates
Reverse Engineering and Testing Version 4.0 [1:58]
McLean Group, Inc.
L-15X and L-25X HP 5000 Interfaces [7:98]
MDL Corporation
EX 700 EISA Expansion Box [11:64-66]
MediaMagic, Inc.
JPEG Compression Daughter Card [3:64]
Mega Drive Systems, Inc.
MR/5 RAID Disk Array [3:78, 5:84]
MR/10 RAID Disk Arrays [5:84]
Mentalix Inc.
Pixel!FX 2.5 [3:82]
Metrix, Inc.
OpenUPTIME Release 3.0 [7:86-87]
MiniSoft, Inc.
NP/UX Netware Printing [9:94]
Terminal Emulation [1:77-78]
Modular Industrial Computers (MIC)
Human Interface Link (HIL)-PS/2 Converter [5:79-80]
Montage Software, Inc.
UNIFACE Integration [1:74]

N

National Information Systems, Inc.
ACCENT GraphicVUE Project Management System Version 1.50 [1:76-77; 3:67-68]
National Instruments
GPIB-HP700-EISA Kit [11:68]
Instrumentation Products Catalog [1:60]
Network Security Systems Inc. (NSSI)
IPS/A.I. 2000 Extended Runtime UPSs [3:70]
LanSafe II 3.0 Network Power Management [1:68]
Norland Corporation
Wireless Protocol Stack (WPS) [11:82-84]
NSD
Networked Electronic Report & Document Distribution (NERDD) [5:96]

O

O2 Technology
Object-Oriented Database Management [5:78]
Oberon Software
SynchroWorks for HP ORB Plus [5:92]
Onion Peel Software (OPS)
Productivity Series for HP OpenView [11:86]

OPENService SJI, Inc.
SYSTEMWatch AI-L [3:76]
Operations Control Systems (OCS)
EXPRESS [9:98]
LIBRARIAN/iX 2.0 [1:58]
OPN Systems, Inc.
OPN:Office v7.3 [7:102]
Oracle Corporation
TSreorg [7:100]

P

Pacer Software, Inc.
PacerShare and PacerPrint upgrades [3:72-74]
ParaSoft Corporation
Insight 1.1 [1:56-58]
Insight++ 2.0 [11:69-70]
ParcPlace Systems, Inc.
VisualWorks 2.0 [9:102]
PDC
BudTool 4.3 [9:101]
BudTurbo [11:80]
EXB-210 8-mm Tape Library [9:101]
PeopleSoft, Inc.
Resume Reader [7:103]
Performance Awareness
preVue-X [7:86]
Performance Software, Inc.
V-TEST for UNIX/HP-UX [9:96-98]
Personal Library Software (PLS)
PLServer [5:96-97]
Phase X Systems, Inc.
CA X Terminals [3:80-82]
T Series X Terminals [5:90-91]
Polaris Service Inc.
ASJ Support Services, Inc. Acquisition [3:72]
Portable Graphics, Inc.
EDISON [11:68]
Surfacer Version 3.1 [11:68]
Postalsoft Inc.
Merge/Purge Custom [1:74-75]
Pro Software, Inc.
Pro_EDI [5:80]
Proactive Systems
FLEXIBASE/SQL [5:94-96]
PROCASE Corporation
Integration with CDE [3:64]
SMARTreport Writer [9:100]
SMARTstructure Chart [9:100]
SMARTsystem Version 2.1 [3:64]
SMARTsystem Version 3.0 [5:96]
SMARTsystem Version 4.0 [9:100]
Productive Software Systems, Inc.
HP 3000 Client-Server Integrator [11:77]

PROGENI Corporation
Micro GLE Version 6.2 [11:70]
Proxima Corporation
Ovation 920 [9:106]

Q

Quadralay Corporation
Global Wide Help & Information System (GWHIS) [5:98]
Qualix Group
Portable Mail for Windows [5:90]
UniShield [9:104-105]
Quintus Corporation
InsyncQ [11:70]

R

RAC Consulting
PRINTPATH/NLM For UNIX [9:105]
Rad Network Devices, Inc. (RND)
RMON/ET4 [11:84-86]
Raxco, Inc.
SecurityToolkit/UNIX Version 3.0 [3:68]
RBS Group
SOFTRAX [1:74]
Recital Corporation
C-ISAM Bridge [1:70]
RESTRAC, Inc.
Resume Reader [7:103]
RGB Spectrum
Four-Way Splitter [7:88-89]
RGB/View [9:92]
SuperView [5:89; 9:92]
Rogue Wave Software, Inc.
Bundled Libraries [7:109]
Tools.h++ [7:109]

S

Search Software America (SSA)
SSA-NAME3 Version 1.6.1 [9:102]
SEEK Systems
SEEK I/O ANALYZER 6000 [7:84]
Xcelerator [7:84]
Shany Inc.
AlertVIEW Version 2.2 [3:70]
AlertVIEW Version 2.3 [11:82]
AlertVIEW [7:96-97]
Siren Software
Siren Mail E-Mail and Fax Integration [1:71]
Six Sigma CASE, Inc.
Canonizer for Teamwork [9:100]
Skribe Software, Inc.
Skribe Report Writer [1:78]
Software Licensing Corporation
IX/92 [11:78-80]

Software Systems Design
FREDoc Version 1.5 [5:78]
QualGen Ada and C Code Analyzer [3:68]
Spectra Logic
Alexandria Backup Librarian [1:68; 11:72-73]
OBACKUP Personality [7:88]
Speedware Corporation
EasyReporter Version 7 [1:62-65]
SPEEDWARE Version 7.02 [1:62]
SRA Technology Training Co.
Computer-Based Training [1:76]
Stellingwerff Beintema B.V.
SVGA for BASIC Workstations [5:74]
Sterling Software, Inc.
COMMERCE:Interactive [9:106]
GENTRAN [11:77-78]
SAP Alliance [11:77-78]
Structural Research & Analysis Corporation
COSMOS/M ENGINEER 1.71 [11:72]
Structured Software Solutions, Inc. (SSSI)
FacetTerm Version 3 [1:65]
HP 700/70 Windowing Terminal [7:110]
SynOptics Communications, Inc.
Optivity 4.0 [5:88]
System Software Associates, Inc. (SSA)
BPCS/AS Version 5.0 [9:96]
Tangent Computing K.K.
XRT/3d [7:90]
Tangent Computing Ltd.
XRT/graph for OSF/Motif Japanese Version [1:66]
TEAMWORK Software Solutions
Motif Made Simple Version (MMS) 1.0 [5:72]
Technical & Scientific Application, Inc.
Authorized HP Rental Company [1:65]
Texas ISA, Inc.
ISA Model 7020 Startup/Shutdown Control Device [5:76-78]
Thursby Software Systems, Inc. (TSS)
TSSnet DEC-to-HP Networking [3:66-67]
TSSterm 420 [9:101]
Tom Sawyer Software Corporation
Graph layout Toolkit [3:80]
Transitional Technology, Inc. (TTi)
CTS4410 DAT Subsystem [7:92-94]

T

Tripac Systems Corporation
3480 Compatibility [9:94-96]
DataStor 3.5" [1:58]
Tripp Lite
SNMP-2 UPS Adapter [11:74]
Triton Technologies, Inc.
CoSession/PC2X [5:93-94]

U

Uniface Corporation
CASE Initiative [1:74]
UNIFACE Support of Montage DBMS [1:74]
Unipalm, Ltd.
Mail-it 2.0 [1:68]
UniPress Software, Inc.
CoSession/PC2X [5:93-94]
Mail-it 2.0 [1:68]
Pronto Mail [7:102]
Source Code Manager [1:68; 3:74]
UniSolutions Associates
BART [11:80]
Unison-Tymlabs
HP OpenView Premier Solution Partner [9:109-110]
Load Balancer [5:76]
Maestro Version D.01 [1:75-76]

V

Vertex Industries, Inc.
BRIDGE.NET [1:77]
Oracle-Based Shrink-Wrapped Software [1:77]
Visix Software Inc.
Galaxy U [9:106-107]
Visual Engineering, Inc.
Ovation [5:94]
Visual Numerics, Inc.
PV-WAVE Advantage Version 5.0 [11:80]
PV-WAVE Point & Click Version 2.2 [5:88-89]

W

Walker Richer & Qinn (WRQ), Inc.
Reflection 3270 [5:75-76]
Reflection X [5:74-75; 7:82-84]
Wang
OPEN/workflow [5:82]
WorkGroup Solutions (WGS)
FlagShip 4.3 [11:72]
Workgroup Technology Corporation
CMS/Pro Version 2.0 [7:94]

X

Xpoint Canada
ReForm [5:72-74]
Xpoint Corporation
ReForm 1.27 [9:94]

Y

Young Minds, Inc. (YMi)
MakeDisc Release 1.14 [11:75]
UltraCapacity [11:75-76]
UltraCapacity Mass Storage for TCP/IP [7:105-106]

Z

Z-Code Software Corporation
Z-Mail 3.0 [5:80]
Zinc Software
Zinc Application Framework 4.0 [11:78]

Protect Your DATA

TAPE AUTOCHANGERS FOR UNATTENDED BACKUP!

Herstal Autochangers are available in various sizes to provide from 48 Gigabytes to over 24 Terabytes of **Unattended Backup** or **Near-Line Archive** capacity. Multiple volume system back-up and file archiving can be performed in an unattended **"Lights-Out"** environment. Our popular autochanger models are the industry's most cost effective with typical capacities of 200GB per replaceable tape magazine. Larger Autochangers feature near-line capacities of up to 900 tape or optical disk cartridges. Media types include 4mm DDS-2 DATs, 8mm Exabyte, DLT, 3480/3490, S-VHS, and AMPEX 19mm tapes.

Herstal Autochangers are compatible with computers that have an available SCSI or SCSI-2 bus or host adapter, and are usable with your "favorite" backup programs by means of Herstal's AUTOREPLY program. Many specialized backup programs are available to control Autochanger advanced features.

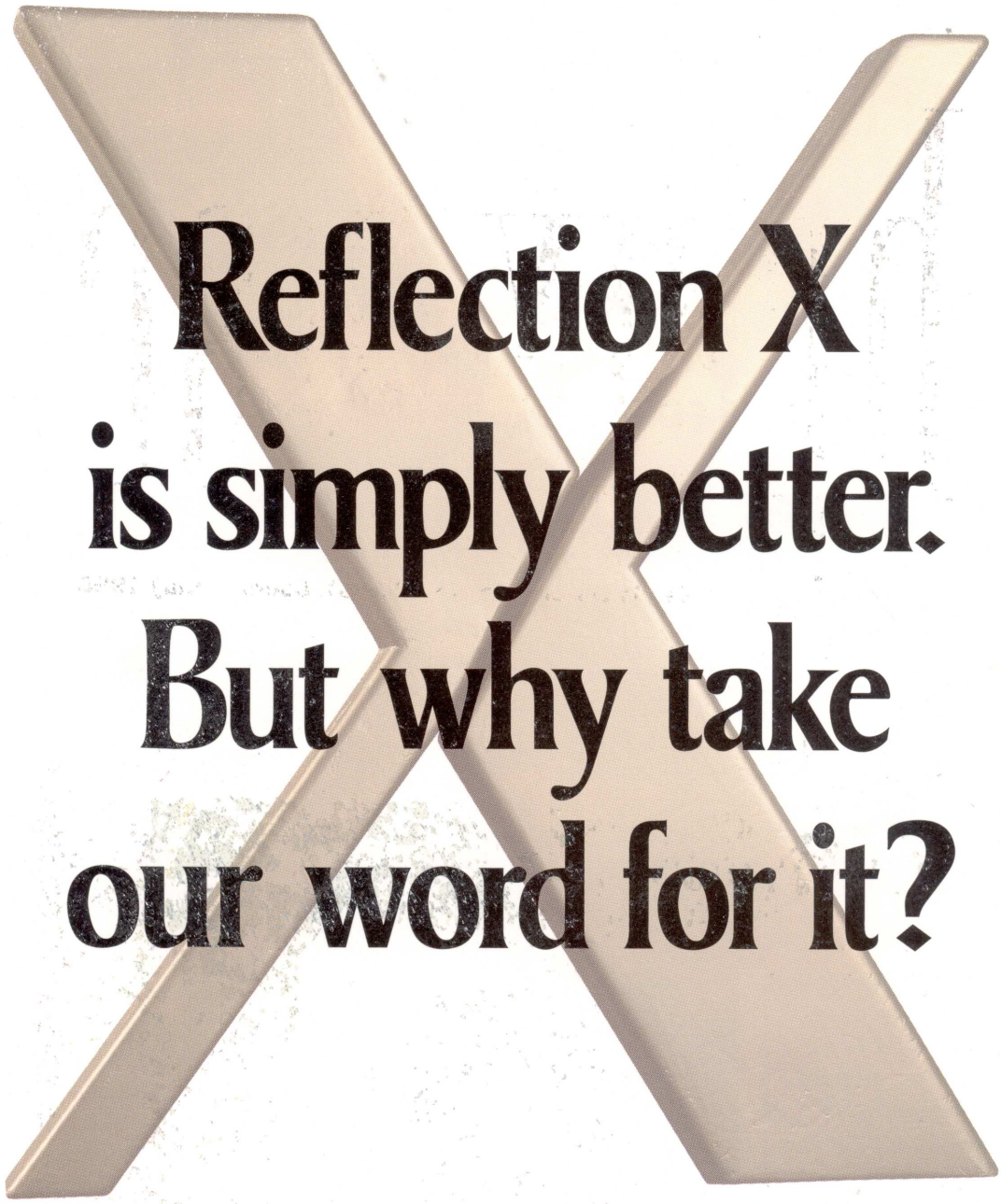
The combination of **CA-UNICENTER**® and Herstal **UNISTORE**® provides "mainframe caliber" system management features including protection from both internal and external security violations, as well as, tape volume mis-identification or mis-use. System backup is fully automated and includes the ability to specify both the retention period and number of older copies of files to be preserved. This feature guards against accidental file deletion. Disk storage is conserved by the Automatic Threshold Archiving mechanism which rolls-out "eligible" files as the disk fills. A "demand-driven" transparent restore process automatically recovers needed files. These hierarchal storage management (HSM) features use a high-speed "ballistic" search mode found on most modern tape devices which typically can find information over 100 times faster than normal tape "reads". An unlimited number of tape vaults, each containing millions of tape or optical disk volumes, can be defined and managed for both temporary or permanent archival storage.

System management is by means of "Policies". This "Set & Forget" method ensures that systems are effectively managed with minimal effort. Other areas of system management include: console message monitoring, job scheduling, report distribution control and problem management, including an automated help desk function.

Optional modules are available to provide remote alarms for system or database failures. Automated distribution, installation and version control of software updates is available for networked systems.

CA-UNICENTER and Herstal **UNISTORE** are available for most popular UNIX platforms, client/servers and networks of heterogeneous systems. Please contact Herstal for availability information.

HERSTAL
AUTOMATION
7414 Manatee Street
Sarasota, FL U.S.A. 34243-1824
Phone: 1-813-358-2001
Fax: 1-813-358-2010
E-Mail: sales@herstal.com



Reflection X is simply better. But why take our word for it?

You be the judge. Try Reflection® X free for 30 days, and you'll see why it's 'simply better.'

You'll discover complete PC-to-UNIX connectivity. Reflection X is the first 32-bit PC X server to include advanced TCP/IP for Windows, award-winning VT320 emulation, and sophisticated applications like FTP client and server and LPR/LPD. All from a single vendor.

You'll find Reflection X is easier to use, too, because it takes full advantage of Microsoft Windows. We've added features like drag-and-drop FTP and configurable panning. Plus, our intelligent client startup lets you launch X clients automatically—right out of the box!

Reflection X delivers top performance, reliability, and offers outstanding technical support.

So call today for your free 30-day evaluation. Because when it comes to 'simply better,' you know best.

For your free 30-day evaluation of Reflection X, call

800-92NETWORK.

In Europe, call +31.70.375.11.00
Outside Europe, call 206.217.7100

WRQ Reflection

Making PC Connections Count

Walker Richer & Quinn, Inc. / 1500 Dexter Avenue North, Seattle, Washington 98109 / FAX: 206.217.0293 / Buitenhof 47, 2513 AH Den Haag, The Netherlands / FAX: +31.70.356.12.44

Reflection and Reflection Network Series are registered trademarks of Walker Richer & Quinn, Inc. All other trademarks are the property of their respective holders.